PATENT COOPERATION TREATY

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INTERNATIONAL PRELIMINARY REPORT ON PATENTARILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

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	FOR FURTHER ACTION See Form PCT/IPEA/416					
P17115WO	arnational filing date (day/month/yea	r) Priority date (day/month/year)				
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101/822002/0020)-12-2002					
International Patent Classification (IPC) or national classification and IPC						
H02G3/04, H05K7/14 // H04K5/02, H05K7/18						
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Applicant						
Telefonaktiebolaget LM	Ericsson (publ) et	al				
 This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36. 						
This REPORT consists of a total of	3 sheets, including this	s cover sheet.				
This report is also accompanied by Al	NEXES, comprising:					
a. (sent to the applicant and	to the International Bureau) a total	of 2 sheets, as follows:				
sheets of the desc	ription, claims and/or drawings which	th have been amended and are the basis of this report				
and/or sheets con Administrative In	taining rectifications authorized by the structions).	his Authority (see Rule 70.16 and Section 607 of the				
Chapta which cure	ercede earlier sheets, but which this	Authority considers contain an amendment that goes				
beyond the disclo	sure in the international application	as filed, as indicated in item 4 of Box No. I and the				
Supplemental Bo						
b (sent to the International	Bureau only) a total of (indicate typ	e and number of electronic carrier(s))				
readable form only as in	, containing a sequence	listing and/or tables related thereto, in computer lating to Sequence Listing (see Section 802 of the				
Administrative Instruction	ns).					
This report contains indications relations	ng to the following items:					
Box No. I Basis of the						
Box No. II Priority		•				
Box No. III Non-establ	Let a the state of					
Box No. IV Lack of un	ity of invention					
Box No. V Reasoned	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial					
	applicability; citations and explanations supporting such statement					
1 —	Box No. VII Certain defects in the international application Box No. VIII Certain observations on the international application					
Box No. VIII Certain ob	servations on the international applic	Catton				
Date of submission of the demand	Date of com	pletion of this report				
Date of gapinipalou of the demand		-				
17-05-2004	08-02-	2005				
Name and mailing address of the IPEA/SE	Authorized	officer				
Patent- och registreringsverket						
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Form PCT/IPEA/409 (cover sheet) (January 2004)



International application No.
PCT/SE2002/002427

x No. I	Basis of the report	. 111 kana Elad unless
otherwi	ise indicated under this item.	on the international application in the language in which it was filed, unless
	This report is based on a translation from th which is the language of a translation furnis	e original language into the following language, shed for the purposes of:
	international search (under Rules 1	2.3 and 23.1(b))
	publication of the international app	plication (under Rule 12.4)
	international preliminary examinat	tion (under Rules 55.2 and/or 55.3)
furnish	regard to the elements of the internation hed to the receiving Office in response to a re not annexed to this report):	al application, this report is based on (replacement sheets which have been in invitation under Article 14 are referred to in this report as "originally filed"
	the international application as originally	filed/furnished
$\overline{\boxtimes}$	the description:	11 . C1-4/Cminbod
	pages 1-9	as originally filed/furnished
		received by this Authority on
	pages*	received by this Authority on
\boxtimes	the claims:	
لاسكا	pages	as originally filed/furnished
		as amended (together with any statement) under Article 13
	pages* 10-11	received by this Authority on 2004-11-18
	pages*	received by this Authority on
\boxtimes	the drawings:	
	pages 1-5	as originally filed/furnished
	pages*	received by this Authority on
	pages*	received by this Authority on
	a sequence listing and/or any related tab	le(s) – see Supplemental Box Relating to Sequence Listing.
3.	The amendments have resulted in the ca	ncellation of:
	the description, pages	
		
	-	10.1
	any table(s) related to the sequence	
4.	This report has been established as if made, since they have been considered 70.2(c)).	(some of) the amendments annexed to this report and listed below had not to go beyond the disclosure as filed, as indicated in the Supplemental Box (I
	the claims, Nos.	
	the drawings, sheets/figs	
	the sequence listing (specify)	:
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	tem 4 applies, some or all of those sheets m	ay be marked "superseaea."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/SE2002/002427

Box No.	V Reasoned statement un citations and explanations	der Article 3: ons supportin	5(2) with regard to novelty, inventive step or industrial applicability; g such statement	
l. Sta	tement Novelty (N)	Claims Claims	1 6	YES NO
	Inventive step (IS)	Claims Claims	1 6	YES NO
1	Industrial applicability (IA)	Claims Claims	1 - 6	YES NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: US 5067678 A
D2: US 4937400 A
D3: US 5358011 A
D4: US 6388891 B1
D5: US 5774617 A

Document D1 discloses a cable routing system having a plurality of troughs. The cable routing system is designed to carry optical fiber cables (see column 1 line 40 - line 58).

Document D2 discloses a retaining apparatus for optical conductors. The apparatus defines a rectangular channel in which the conductors are housed (see abstract).

Document D3-D5 represent the relevant prior art to the claimed invention.

The invention according to new claims 1-6, filed with the letter of 2004-11-18, comprises openings for insertion of the cables and the cables are inserted in one end and fed through the duct.

This is not known in any of D1-D5.

The invention according to new claims 1-6, filed with the letter of 2004-11-18, is new and is considered to involve an inventive step. The invention is industrially applicable.

CLAIMS

1. Arrangement for flexible installation of an optical patch cable (PC1) in a telecommunication station (TS) between equipment (AE4, AE7) in the station, the arrangement being **characterised** by a micro duct (1) for guidance of the patch cable, the duct having duct end openings (E4, E7) related to the equipment, the end openings being adapted to receive the patch cable (PC1) for insertion into the micro duct (1).

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- 2. Arrangement for flexible installation of the optical patch cable according to claim 1 comprising:
 - means for feeding the patch cable (PC1) through the duct (1);
- means for adjusting the patch cable length between the equipment (AE4, AE7);
 - means for assembling a connector (C7) to at least one end of the patch cable.
- 20 3. Arrangement for flexible installation of the optical patch cable according to claim 1 or 2 whereby the duct (1) comprises spliced duct parts (1a, 1b, 1c).
- 4. Arrangement for flexible installation of the optical patch cable according to any of claim 1-3 whereby the duct comprises more than two end openings.

AMENDED SHEET

- 5. Method for flexible installation of an optical patch cable (PC1) in a telecommunication station (TS) between equipment (AE4, AE7) in the station, the method being characterised by the following step:
- 5 - installation of micro duct (1) inthe a telecommunication station (TS), the duct being installed with duct end openings (E4, E7) related to the equipment;
- inserting the patch cable (PC1) into the micro duct (1) through one of the end openings (E4, E7);
 - feeding the patch cable (PC1) through the duct (1) and through another one of the end openings (E4, E7);
 - adjusting the patch cable length between the equipment (AE4, AE7);
- assembling a connector (C7) to at least one end of the patch cable.
 - 6. Method for flexible installation of the optical patch cable according to claim 5 whereby the duct is guided through a cabinet wall entrance in the telecommunication station.

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AMENDED SHEET